



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/685,258A
Source: IFW3
Date Processed by STIC: 7/23/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004

TIME: 12:50:13

Input Set : A:\34132seq.txt
 Output Set: N:\CRF4\07232004\J685258A.raw

3 <110> APPLICANT: Carr, Antony M.
 5 <120> TITLE OF INVENTION: Cell-Cycle Checkpoint Genes
 7 <130> FILE REFERENCE: 27866/34132
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/685,258A
C--> 10 <141> CURRENT FILING DATE: 2003-10-14
 12 <150> PRIOR APPLICATION NUMBER: GB 9518220.0
 13 <151> PRIOR FILING DATE: 1995-09-06
 15 <160> NUMBER OF SEQ ID NOS: 4
 17 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

704 <210> SEQ ID NO: 2
 705 <211> LENGTH: 2644
 706 <212> TYPE: PRT
 707 <213> ORGANISM: Homo sapiens
 709 <400> SEQUENCE: 2
 710 Met Gly His Gly Leu Glu Leu Ala Ser Met Ile Pro Ala Leu Arg
 711 1 5 10 15
 713 Glu Leu Gly Ser Ala Thr Pro Glu Glu Tyr Asn Thr Val Val Gln Lys
 714 20 25 30
 716 Pro Arg Gln Ile Leu Cys Gln Phe Ile Asp Arg Ile Leu Thr Asp Val
 717 35 40 45
 719 Asn Val Val Ala Val Glu Leu Val Lys Lys Thr Asp Ser Gln Pro Thr
 720 50 55 60
 722 Ser Val Met Leu Leu Asp Phe Ile Gln His Ile Met Lys Ser Ser Pro
 723 65 70 75 80
 725 Leu Met Phe Val Asn Val Ser Gly Ser His Glu Arg Lys Gly Ser Cys
 726 85 90 95
 728 Ile Glu Phe Ser Asn Trp Ile Ile Thr Arg Leu Leu Arg Ile Ala Ala
 729 100 105 110
 731 Thr Pro Ser Cys His Leu Leu His Lys Lys Ile Cys Glu Val Ile Cys
 732 115 120 125
 734 Ser Leu Leu Phe Leu Phe Lys Ser Lys Ser Pro Ala Ile Phe Gly Val
 735 130 135 140
 737 Leu Thr Lys Glu Leu Leu Gln Leu Phe Glu Asp Leu Val Tyr Leu His
 738 145 150 155 160
 740 Arg Arg Asn Val Met Gly His Ala Val Glu Trp Pro Val Val Met Ser
 741 165 170 175
 743 Arg Phe Leu Ser Gln Leu Asp Glu His Met Gly Tyr Leu Gln Ser Ala
 744 180 185 190
 746 Pro Leu Gln Leu Met Ser Met Gln Asn Leu Glu Phe Ile Glu Val Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

747	195	200	205													
749	Leu	Leu	Met	Val	Leu	Thr	Arg	Ile	Ile	Ala	Ile	Val	Phe	Phe	Arg	Arg
750	210		215									220				
752	Gln	Glu	Leu	Leu	Leu	Trp	Gln	Ile	Gly	Cys	Val	Leu	Leu	Glu	Tyr	Gly
753	225						230			235					240	
755	Ser	Pro	Lys	Ile	Lys	Ser	Leu	Ala	Ile	Ser	Phe	Leu	Thr	Glu	Leu	Phe
756							245			250					255	
758	Gln	Leu	Gly	Gly	Leu	Pro	Ala	Gln	Pro	Ala	Ser	Thr	Phe	Phe	Ser	Ser
759							260			265					270	
761	Phe	Leu	Glu	Leu	Leu	Lys	His	Leu	Val	Glu	Met	Asp	Thr	Asp	Gln	Leu
762							275			280					285	
764	Lys	Leu	Tyr	Glu	Glu	Pro	Leu	Ser	Lys	Leu	Ile	Lys	Thr	Leu	Phe	Pro
765							290			295					300	
767	Phe	Glu	Ala	Glu	Ala	Tyr	Arg	Asn	Ile	Glu	Pro	Val	Tyr	Leu	Asn	Met
768	305						310			315					320	
770	Leu	Leu	Glu	Lys	Leu	Cys	Val	Met	Phe	Glu	Asp	Gly	Val	Leu	Met	Arg
771							325			330					335	
773	Leu	Lys	Ser	Asp	Leu	Leu	Lys	Ala	Ala	Leu	Cys	His	Leu	Leu	Gln	Tyr
774							340			345					350	
776	Phe	Leu	Lys	Phe	Val	Pro	Ala	Gly	Tyr	Glu	Ser	Ala	Leu	Gln	Val	Arg
777							355			360					365	
779	Lys	Val	Tyr	Val	Arg	Asn	Ile	Cys	Lys	Ala	Leu	Leu	Asp	Val	Leu	Gly
780							370			375					380	
782	Ile	Glu	Val	Asp	Ala	Glu	Tyr	Leu	Leu	Gly	Pro	Leu	Tyr	Ala	Ala	Leu
783	385						390			395					400	
785	Lys	Met	Glu	Ser	Met	Glu	Ile	Ile	Glu	Glu	Ile	Gln	Cys	Gln	Thr	Gln
786							405			410					415	
788	Gln	Glu	Asn	Leu	Ser	Ser	Asn	Ser	Asp	Gly	Ile	Ser	Pro	Lys	Arg	Arg
789							420			425					430	
791	Arg	Leu	Ser	Ser	Ser	Leu	Asn	Pro	Ser	Lys	Arg	Ala	Pro	Lys	Gln	Thr
792							435			440					445	
794	Glu	Glu	Ile	Lys	His	Val	Asp	Met	Asn	Gln	Lys	Ser	Ile	Leu	Trp	Ser
795							450			455					460	
797	Ala	Leu	Lys	Gln	Lys	Ala	Glu	Ser	Leu	Gln	Ile	Ser	Leu	Glu	Tyr	Ser
798	465						470			475					480	
800	Gly	Leu	Lys	Asn	Pro	Val	Ile	Glu	Met	Leu	Glu	Gly	Ile	Ala	Val	Val
801							485			490					495	
803	Leu	Gln	Leu	Thr	Ala	Leu	Cys	Thr	Val	His	Cys	Ser	His	Gln	Asn	Met
804							500			505					510	
806	Asn	Cys	Arg	Thr	Phe	Lys	Asp	Cys	Gln	His	Lys	Ser	Lys	Lys	Pro	
807							515			520					525	
809	Ser	Val	Val	Ile	Thr	Trp	Met	Ser	Leu	Asp	Phe	Tyr	Thr	Lys	Val	Leu
810							530			535					540	
812	Lys	Ser	Cys	Arg	Ser	Leu	Leu	Glu	Ser	Val	Gln	Lys	Leu	Asp	Leu	Glu
813	545						550			555					560	
815	Ala	Thr	Ile	Asp	Lys	Val	Val	Lys	Ile	Tyr	Asp	Ala	Leu	Ile	Tyr	Met
816							565			570					575	
818	Gln	Val	Asn	Ser	Ser	Phe	Glu	Asp	His	Ile	Leu	Glu	Asp	Leu	Cys	Gly
819							580			585					590	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
 TIME: 12:50:13

Input Set : A:\34132seq.txt
 Output Set: N:\CRF4\07232004\J685258A.raw

821 Met Leu Ser Leu Pro Trp Ile Tyr Ser His Ser Asp Asp Gly Cys Leu
 822 595 600 605
 824 Lys Leu Thr Thr Phe Ala Ala Asn Leu Leu Thr Leu Ser Cys Arg Ile
 825 610 615 620
 827 Ser Asp Ser Tyr Ser Pro Gln Ala Gln Ser Arg Cys Val Phe Leu Leu
 828 625 630 635 640
 830 Thr Leu Phe Pro Arg Arg Ile Phe Leu Glu Trp Arg Thr Ala Val Tyr
 831 645 650 655
 833 Asn Trp Ala Leu Gln Ser Ser His Glu Val Ile Arg Ala Ser Cys Val
 834 660 665 670
 836 Ser Gly Phe Phe Ile Leu Leu Gln Gln Asn Ser Cys Asn Arg Val
 837 675 680 685
 839 Pro Lys Ile Leu Ile Asp Lys Val Lys Asp Asp Ser Asp Ile Val Lys
 840 690 695 700
 842 Lys Glu Phe Ala Ser Ile Leu Gly Gln Leu Val Cys Thr Leu His Gly
 843 705 710 715 720
 845 Met Phe Tyr Leu Thr Ser Ser Leu Thr Glu Pro Phe Ser Glu His Gly
 846 725 730 735
 848 His Val Asp Leu Phe Cys Arg Asn Leu Lys Ala Thr Ser Gln His Glu
 849 740 745 750
 851 Cys Ser Ser Ser Gln Leu Lys Ala Ser Val Cys Lys Pro Phe Leu Phe
 852 755 760 765
 854 Leu Leu Lys Lys Ile Pro Ser Pro Val Lys Leu Ala Phe Ile Asp
 855 770 775 780
 857 Asn Leu His His Leu Cys Lys His Leu Asp Phe Arg Glu Asp Glu Thr
 858 785 790 795 800
 860 Asp Val Lys Ala Val Leu Gly Thr Leu Leu Asn Leu Met Glu Asp Pro
 861 805 810 815
 863 Asp Lys Asp Val Arg Val Ala Phe Ser Gly Asn Ile Lys His Ile Leu
 864 820 825 830
 866 Glu Ser Leu Asp Ser Glu Asp Gly Phe Ile Lys Glu Leu Phe Val Leu
 867 835 840 845
 869 Arg Met Lys Glu Ala Tyr Thr His Ala Gln Ile Ser Arg Asn Asn Glu
 870 850 855 860
 872 Leu Lys Asp Thr Leu Ile Leu Thr Thr Gly Asp Ile Gly Arg Ala Ala
 873 865 870 875 880
 875 Lys Gly Asp Leu Val Pro Phe Ala Leu Leu His Leu Leu His Cys Leu
 876 885 890 895
 878 Leu Ser Lys Ser Ala Ser Val Ser Gly Ala Ala Tyr Thr Glu Ile Arg
 879 900 905 910
 881 Ala Leu Val Ala Ala Lys Ser Val Lys Leu Gln Ser Phe Phe Ser Gln
 882 915 920 925
 884 Tyr Lys Lys Pro Ile Cys Gln Phe Leu Val Glu Ser Leu His Ser Ser
 885 930 935 940
 887 Gln Met Thr Ala Leu Pro Asn Thr Pro Cys Gln Asn Ala Asp Val Arg
 888 945 950 955 960
 890 Lys Gln Asp Val Ala His Gln Arg Glu Met Ala Leu Asn Thr Leu Ser
 891 965 970 975
 893 Glu Ile Ala Asn Val Phe Asp Phe Pro Asp Leu Asn Arg Phe Leu Thr

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
 TIME: 12:50:13

Input Set : A:\34132seq.txt
 Output Set: N:\CRF4\07232004\J685258A.raw

894	980	985	990
896 Arg Thr Leu Gln Val Leu Leu Pro Asp Leu Ala Ala Lys Ala Ser Pro			
897	995	1000	1005
899 Ala Ala Ser Ala Leu Ile Arg Thr Leu Gly Lys Gln Leu Asn Val Asn			
900	1010	1015	1020
902 Arg Arg Glu Ile Leu Ile Asn Asn Phe Lys Tyr Ile Phe Ser His Leu			
E--> 903 025 1025	1030	1035	1040
905 Val Cys Ser Cys Ser Lys Asp Glu Leu Glu Arg Ala Leu His Tyr Leu			
906	1045	1050	1055
908 Lys Asn Glu Thr Glu Ile Glu Leu Gly Ser Leu Leu Arg Gln Asp Phe			
909	1060	1065	1070
911 Gln Gly Leu His Asn Glu Leu Leu Arg Ile Gly Glu His Tyr Gln			
912	1075	1080	1085
914 Gln Val Phe Asn Gly Leu Ser Ile Leu Ala Ser Phe Ala Ser Ser Asp			
915	1090	1095	1100
917 Asp Pro Tyr Gln Gly Pro Arg Asp Ile Ile Ser Pro Glu Leu Met Ala			
E--> 918 105 1105 1110		1115	1120
920 Asp Tyr Leu Gln Pro Lys Leu Leu Gly Ile Leu Ala Phe Phe Asn Met			
921	1125	1130	1135
923 Gln Leu Leu Ser Ser Ser Val Gly Ile Glu Asp Lys Lys Met Ala Leu			
924	1140	1145	1150
926 Asn Ser Leu Met Ser Leu Met Lys Leu Met Gly Pro Lys His Val Ser			
927	1155	1160	1165
929 Ser Val Arg Val Lys Met Met Thr Thr Leu Arg Thr Gly Leu Arg Phe			
930	1170	1175	1180
932 Lys Asp Asp Phe Pro Glu Leu Cys Cys Arg Ala Trp Asp Cys Phe Val			
E--> 933 185 1185 1190		1195	1200
935 Arg Cys Leu Asp His Ala Cys Leu Gly Ser Leu Leu Ser His Val Ile			
936	1205	1210	1215
938 Val Ala Leu Leu Pro Leu Ile His Ile Gln Pro Lys Glu Thr Ala Ala			
939	1220	1225	1230
941 Ile Phe His Tyr Leu Ile Ile Glu Asn Arg Asp Ala Val Gln Asp Phe			
942	1235	1240	1245
944 Leu His Glu Ile Tyr Phe Leu Pro Asp His Pro Glu Leu Lys Lys Ile			
945	1250	1255	1260
947 Lys Ala Val Leu Gln Glu Tyr Arg Lys Glu Thr Ser Glu Ser Thr Asp			
E--> 948 265 1265 1270		1275	1280
950 Leu Gln Thr Thr Leu Gln Leu Ser Met Lys Ala Ile Gln His Glu Asn			
951	1285	1290	1295
953 Val Asp Val Arg Ile His Ala Leu Thr Ser Leu Lys Glu Thr Leu Tyr			
954	1300	1305	1310
956 Lys Asn Gln Glu Lys Leu Ile Lys Tyr Ala Thr Asp Ser Glu Thr Val			
957	1315	1320	1325
959 Glu Pro Ile Ile Ser Gln Leu Val Thr Val Leu Leu Lys Gly Cys Gln			
960	1330	1335	1340
962 Asp Ala Asn Ser Gln Ala Arg Leu Leu Cys Gly Glu Cys Leu Gly Glu			
E--> 963 345 1345 1350		1355	1360
965 Leu Gly Ala Ile Asp Pro Gly Arg Leu Asp Phe Ser Thr Thr Glu Thr			
966	1365	1370	1375

When numbering the first amino acid on a line, begin the number directly under the first letter of the amino acid.

Otherwise, the first number will be "cut off."

e.g. Arg |¹ Arg
| 025 |² Arg

Please leave a space after the last number and the next amino acid, as shown above.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

968 Gln Gly Lys Asp Phe Thr Phe Val Thr Gly Val Glu Asp Ser Ser Phe
 969 1380 1385 1390
 971 Ala Tyr Gly Leu Leu Met Glu Leu Thr Arg Ala Tyr Leu Ala Tyr Ala
 972 1395 1400 1405
 974 Asp Asn Ser Arg Ala Gln Asp Ser Ala Ala Tyr Ala Ile Gln Glu Leu
 975 1410 1415 1420
 977 Leu Ser Ile Tyr Asp Cys Arg Glu Met Glu Thr Asn Gly Pro Gly His
E--> 978 425 1425 1430 1435 1440
 980 Gln Leu Trp Arg Arg Phe Pro Glu His Val Arg Glu Ile Leu Glu Pro
 981 1445 1450 1455
 983 His Leu Asn Thr Arg Tyr Lys Ser Ser Gln Lys Ser Thr Asp Trp Ser
 984 1460 1465 1470
 986 Gly Val Lys Lys Pro Ile Tyr Leu Ser Lys Leu Gly Ser Asn Phe Ala
 987 1475 1480 1485
 989 Glu Trp Ser Ala Ser Trp Ala Gly Tyr Leu Ile Thr Lys Val Arg His
 990 1490 1495 1500
 992 Asp Leu Ala Ser Lys Ile Phe Thr Cys Cys Ser Ile Met Met Lys His
E--> 993 505 1505 1510 1515 1520
 995 Asp Phe Lys Val Thr Ile Tyr Leu Leu Pro His Ile Leu Val Tyr Val
 996 1525 1530 1535
 998 Leu Leu Gly Cys Asn Gln Glu Asp Gln Gln Glu Val Tyr Ala Glu Ile
 999 1540 1545 1550
 1001 Met Ala Val Leu Lys His Asp Asp Gln His Thr Ile Asn Thr Gln Asp
 1002 1555 1560 1565
 1004 Ile Ala Ser Asp Leu Cys Gln Leu Ser Thr Gln Thr Val Phe Ser Met
 1005 1570 1575 1580
 1007 Leu Asp His Leu Thr Gln Trp Ala Arg His Lys Phe Gln Ala Leu Lys
E--> 1008 585 1585 1590 1595 1600
 1010 Ala Glu Lys Cys Pro His Ser Lys Ser Asn Arg Asn Lys Val Asp Ser
 1011 1605 1610 1615
 1013 Met Val Ser Thr Val Asp Tyr Glu Asp Tyr Gln Ser Val Thr Arg Phe
 1014 1620 1625 1630
 1016 Leu Asp Leu Ile Pro Gln Asp Thr Leu Ala Val Ala Ser Phe Arg Ser
 1017 1635 1640 1645
 1019 Lys Ala Tyr Thr Arg Ala Val Met His Phe Glu Ser Phe Ile Thr Glu
 1020 1650 1655 1660
 1022 Lys Lys Gln Asn Ile Gln Glu His Leu Gly Phe Leu Gln Lys Leu Tyr
E--> 1023 665 1665 1670 1675 1680
 1025 Ala Ala Met His Glu Pro Asp Gly Val Ala Gly Val Ser Ala Ile Arg
 1026 1685 1690 1695
 1028 Lys Ala Glu Pro Ser Leu Lys Glu Gln Ile Leu Glu His Glu Ser Leu
 1029 1700 1705 1710
 1031 Gly Leu Leu Arg Asp Ala Thr Ala Cys Tyr Asp Arg Ala Ile Gln Leu
 1032 1715 1720 1725
 1034 Glu Pro Asp Gln Ile Ile His Tyr His Gly Val Val Lys Ser Met Leu
 1035 1730 1735 1740
 1037 Gly Leu Gly Gln Leu Ser Thr Val Ile Thr Gln Val Asn Gly Val His
E--> 1038 745 1745 1750 1755 1760
 1040 Ala Asn Arg Ser Glu Trp Thr Asp Glu Leu Asn Thr Tyr Arg Val Glu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004

TIME: 12:50:13

Input Set : A:\34132seq.txt

Output Set: N:\CRF4\07232004\J685258A.raw

1041	1765	1770	1775
1043 Ala Ala Trp Lys Leu Ser Gln Trp Asp Leu Val Glu Asn Tyr Leu Ala			
1044	1780	1785	1790
1046 Ala Asp Gly Lys Ser Thr Thr Trp Ser Val Arg Leu Gly Gln Leu Leu			
1047	1795	1800	1805
1049 Leu Ser Ala Lys Lys Arg Asp Ile Thr Ala Phe Tyr Asp Ser Leu Lys			
1050	1810	1815	1820
1052 Leu Val Arg Ala Glu Gln Ile Val Pro Leu Ser Ala Ala Ser Phe Glu			
E--> 1053 825 1825 1830 1835 1840			
1055 Arg Gly Ser Tyr Gln Arg Gly Tyr Glu Tyr Ile Val Arg Leu His Met			
1056	1845	1850	1855
1058 Leu Cys Glu Leu Glu His Ser Ile Lys Pro Leu Phe Gln His Ser Pro			
1059	1860	1865	1870
1061 Gly Asp Ser Ser Gln Glu Asp Ser Leu Asn Trp Val Ala Arg Leu Glu			
1062	1875	1880	1885
1064 Met Thr Gln Asn Ser Tyr Arg Ala Lys Asp Pro Ile Leu Ala Leu Arg			
1065	1890	1895	1900
1067 Arg Ala Leu Leu Ser Leu Asn Lys Arg Pro Asp Tyr Asn Glu Met Val			
E--> 1068 905 1905 1910 1915 1920			
1070 Gly Glu Cys Trp Leu Gln Ser Ala Arg Val Ala Arg Lys Ala Gly His			
1071	1925	1930	1935
1073 His Gln Thr Ala Tyr Asn Ala Leu Leu Asn Ala Gly Glu Ser Arg Leu			
1074	1940	1945	1950
1076 Ala Glu Leu Tyr Val Glu Arg Ala Lys Trp Leu Trp Ser Lys Gly Asp			
1077	1955	1960	1965
1079 Val His Gln Ala Leu Ile Val Leu Gln Lys Gly Val Glu Leu Cys Phe			
1080	1970	1975	1980
1082 Pro Glu Asn Glu Thr Pro Pro Glu Gly Lys Asn Met Leu Ile His Gly			
E--> 1083 985 1985 1990 1995 2000			
1085 Arg Ala Met Leu Leu Val Gly Arg Phe Met Glu Glu Thr Ala Asn Phe			
1086	2005	2010	2015
1088 Glu Ser Asn Ala Ile Met Lys Lys Tyr Lys Asp Val Thr Ala Cys Leu			
1089	2020	2025	2030
1091 Pro Glu Trp Glu Asp Gly His Phe Tyr Leu Ala Lys Tyr Tyr Asp Lys			
1092	2035	2040	2045
1094 Leu Met Pro Met Val Thr Asp Asn Lys Met Glu Lys Gln Gly Asp Leu			
1095	2050	2055	2060
1097 Ile Arg Tyr Ile Val Leu His Phe Gly Arg Ser Leu Gln Tyr Gly Asn			
E--> 1098 065 2065 2070 2075 2080			
1100 Gln Phe Ile Tyr Gln Ser Met Pro Arg Met Leu Thr Leu Trp Leu Asp			
1101	2085	2090	2095
1103 Tyr Gly Thr Lys Ala Tyr Glu Trp Glu Lys Ala Gly Arg Ser Asp Arg			
1104	2100	2105	2110
1106 Val Gln Met Arg Asn Asp Leu Gly Lys Ile Asn Lys Val Ile Thr Glu			
1107	2115	2120	2125
1109 His Thr Asn Tyr Leu Ala Pro Tyr Gln Phe Leu Thr Ala Phe Ser Gln			
1110	2130	2135	2140
1112 Leu Ile Ser Arg Ile Cys His Ser His Asp Glu Val Phe Val Val Leu			
E--> 1113 145 2145 2150 2155 2160			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

1115 Met Glu Ile Ile Ala Lys Val Phe Leu Ala Tyr Pro Gln Gln Ala Met
 1116 2165 2170 2175
 1118 Trp Met Met Thr Ala Val Ser Lys Ser Ser Tyr Pro Met Arg Val Asn
 1119 2180 2185 2190
 1121 Arg Cys Lys Glu Ile Leu Asn Lys Ala Ile His Met Lys Lys Ser Leu
 1122 2195 2200 2205
 1124 Glu Lys Phe Val Gly Asp Ala Thr Arg Leu Thr Asp Lys Leu Leu Glu
 1125 2210 2215 2220
 1127 Leu Cys Asn Lys Pro Val Asp Gly Ser Ser Ser Thr Leu Ser Met Ser
 E--> 1128 225 2230 2235 2240
 1130 Thr His Phe Lys Met Leu Lys Lys Leu Val Glu Glu Ala Thr Phe Ser
 1131 2245 2250 2255
 1133 Glu Ile Leu Ile Pro Leu Gln Ser Val Met Ile Pro Thr Leu Pro Ser
 1134 2260 2265 2270
 1136 Ile Leu Gly Thr His Ala Asn His Ala Ser His Glu Pro Phe Pro Gly
 1137 2275 2280 2285
 1139 His Trp Ala Tyr Ile Ala Gly Phe Asp Asp Met Val Glu Ile Leu Ala
 1140 2290 2295 2300
 1142 Ser Leu Gln Lys Pro Lys Lys Ile Ser Leu Lys Gly Ser Asp Gly Lys
 E--> 1143 305 2310 2315 2320
 1145 Phe Tyr Ile Met Met Cys Lys Pro Lys Asp Asp Leu Arg Lys Asp Cys
 1146 2325 2330 2335
 1148 Arg Leu Met Glu Phe Asn Ser Leu Ile Asn Lys Cys Leu Arg Lys Asp
 1149 2340 2345 2350
 1151 Ala Glu Ser Arg Arg Arg Glu Leu His Ile Arg Thr Tyr Ala Val Ile
 1152 2355 2360 2365
 1154 Pro Leu Asn Asp Glu Cys Gly Ile Ile Glu Trp Val Asn Asn Thr Ala
 1155 2370 2375 2380
 1157 Gly Leu Arg Pro Ile Leu Thr Lys Leu Tyr Lys Glu Lys Gly Val Tyr
 E--> 1158 385 2390 2395 2400
 1160 Met Thr Gly Lys Glu Leu Arg Gln Cys Met Leu Pro Lys Ser Ala Ala
 1161 2405 2410 2415
 1163 Leu Ser Glu Lys Leu Lys Val Phe Arg Glu Phe Leu Leu Pro Arg His
 1164 2420 2425 2430
 1166 Pro Pro Ile Phe His Glu Trp Phe Leu Arg Thr Phe Pro Asp Pro Thr
 1167 2435 2440 2445
 1169 Ser Trp Tyr Ser Ser Arg Ser Ala Tyr Cys Arg Ser Thr Ala Val Met
 1170 2450 2455 2460
 1172 Ser Met Val Gly Tyr Ile Leu Gly Leu Gly Asp Arg His Gly Glu Asn
 E--> 1173 465 2470 2475 2480
 1175 Ile Leu Phe Asp Ser Leu Thr Gly Glu Cys Val His Val Asp Phe Asn
 1176 2485 2490 2495
 1178 Cys Leu Phe Asn Lys Gly Glu Thr Phe Glu Val Pro Glu Ile Val Pro
 1179 2500 2505 2510
 1181 Phe Arg Leu Thr His Asn Met Val Asn Gly Met Gly Pro Met Gly Thr
 1182 2515 2520 2525
 1184 Glu Gly Leu Phe Arg Arg Ala Cys Glu Val Thr Met Arg Leu Met Arg
 1185 2530 2535 2540
 1187 Asp Gln Arg Glu Pro Leu Met Ser Val Leu Lys Thr Phe Leu His Asp

*same
error*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
 TIME: 12:50:13

Input Set : A:\34132seq.txt
 Output Set: N:\CRF4\07232004\J685258A.raw

E--> 1186 545 2550 2555 2560
 1190 Pro Leu Val Glu Trp Ser Lys Pro Val Lys Gly His Ser Lys Ala Pro
 1191 2565 2570 2575
 1193 Leu Asn Glu Thr Gly Glu Val Val Asn Glu Lys Ala Lys Thr His Val
 1194 2580 2585 2590
 1196 Leu Asp Ile Glu Gln Arg Leu Gln Gly Val Ile Lys Thr Arg Asn Arg
 1197 2595 2600 2605
 1199 Val Thr Gly Leu Pro Leu Ser Ile Glu Gly His Val His Tyr Leu Ile
 1200 2610 2615 2620
 1202 Gln Glu Ala Thr Asp Glu Asn Leu Leu Cys Gln Met Tyr Leu Gly Trp
 E--> 1203 625 2630 2635 2640
 1205 Thr Pro Tyr Met
 1848 <210> SEQ ID NO: 4
 1849 <211> LENGTH: 2386
 1850 <212> TYPE: PRT
 1851 <213> ORGANISM: Homo sapiens
 1853 <400> SEQUENCE: 4
 1854 Met Ser Gln His Ala Lys Arg Lys Ala Gly Ser Leu Asp Leu Ser Pro
 1855 1 5 10 15
 1857 Arg Gly Leu Asp Asp Arg Gln Ala Phe Gly Gln Leu Leu Lys Glu Val
 1858 20 25 30
 1860 Leu Ala Leu Asp Lys Glu His Glu Leu Gly Arg Ser Asn Ser Leu Pro
 1861 35 40 45
 1863 Ser Met Thr Ser Glu Leu Val Glu Val Leu Ile Glu Val Gly Leu Leu
 1864 50 55 60
 1866 Ala Phe Lys His Asp Asp Ser Lys Ser Glu Phe Ile Ser Pro Lys Met
 1867 65 70 75 80
 1869 Leu Lys Glu Ala His Leu Ser Leu Gln Ala Leu Met Leu Ile Leu Lys
 1870 85 90 95
 1872 Arg Ser Pro Thr Val Leu Arg Glu Ile Lys Ser Ser Val Thr Leu Leu
 1873 100 105 110
 1875 Asp Trp Ile Leu Pro Arg Thr Ile Ser Leu Phe Ala Asp Ile Arg Phe
 1876 115 120 125
 1878 Ile Lys Leu Phe Asp Ser Leu Lys Glu Phe His Lys Leu Ile Tyr Gln
 1879 130 135 140
 1881 Leu Ile Ser Glu Lys Ser Phe Leu Trp Asp Leu Tyr Ala Ser Phe Met
 1882 145 150 155 160
 1884 Arg Tyr Trp Lys Tyr Tyr Ile Thr Asn Val Ser Ser Ile Val Leu Gln
 1885 165 170 175
 1887 Ile Thr Asn Ala Thr Phe Pro Tyr Lys Met Pro Ser Pro Asn Ser Gln
 1888 180 185 190
 1890 Pro Leu Gln Ser Ile Ser Pro Asn Tyr Pro Thr His Arg Glu Asp Lys
 1891 195 200 205
 1893 Phe Asp Leu Leu Ile Ile Asn Ile Glu Glu Ala Cys Thr Phe Phe Phe
 1894 210 215 220
 1896 Glu Ser Ala His Phe Phe Ala Gln Cys Ser Tyr Leu Lys Lys Ser Asn
 1897 225 230 235 240
 1899 Phe Pro Ser Pro Pro Leu Phe Thr Ala Trp Thr Trp Ile Lys Pro Cys
 1900 245 250 255

pp 10-14

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004

TIME: 12:50:13

Input Set : A:\34132seq.txt

Output Set: N:\CRF4\07232004\J685258A.raw

1902 Phe Phe Asn Phe Val Ile Leu Leu Lys Arg Ile Ser Ile Gly Asp Ser
 1903 260 265 270
 1905 Gln Leu Phe Leu His Leu His Ser Arg Ile Val Gln Thr Leu Cys Cys
 1906 275 280 285
 1908 Phe Ser Leu Asn Phe Ile Tyr His Gly Leu Pro Ile Cys Glu Lys Ser
 1909 290 295 300
 1911 Lys His Ile Leu Met Ser Ser Ile Asn Leu Thr Leu Gly Ser Leu Lys
 1912 305 310 315 320
 1914 Lys Thr Tyr Thr Val Ala Asn Thr Ala Ile Ser Leu Phe Phe Leu Ser
 1915 325 330 335
 1917 Leu Phe Val Leu Pro Lys Thr Val Ala Gly Leu Phe Tyr Pro Phe Gly
 1918 340 345 350
 1920 Val Ser Leu Leu Ser Asp Phe Lys Val Leu Glu Gln Leu Glu Pro Asp
 1921 355 360 365
 1923 Ser Asp Leu Lys Lys Ala Ile Ile Leu Phe Lys Cys Arg Tyr Gln Ser
 1924 370 375 380
 1926 Ser Glu Ile Asp Gln Thr Thr Leu Arg Ala Phe Gly Glu Ile Cys Thr
 1927 385 390 395 400
 1929 Gly Lys Leu Glu Asn Thr Leu Phe Ser Asn Ser Glu Leu Asn Leu Phe
 1930 405 410 415
 1932 Leu Leu His Tyr Leu Ser Leu Asp Asn Asp Leu Ser Asn Ile Leu Lys
 1933 420 425 430
 1935 Val Asp Phe Gln Asn Gly His Asn Ile Cys Thr Phe Ala Lys Trp Cys
 1936 435 440 445
 1938 Ile Asn Asn Asn Leu Asp Glu Pro Ser Asn Leu Lys His Phe Arg Glu
 1939 450 455 460
 1941 Met Leu Asp Tyr Tyr Ser Ser His Asn Val Thr Ile Ser Glu Asp Asp
 1942 465 470 475 480
 1944 Leu Lys Asn Phe Ser Leu Val Leu Cys Thr His Val Ala Lys Val Asn
 1945 485 490 495
 1947 Glu Lys Thr Asn Ser Ile Phe Arg Thr Tyr Glu Val His Gly Cys Glu
 1948 500 505 510
 1950 Val Cys Asn Ser Phe Cys Leu Leu Phe Asp Glu Arg Ser Pro Phe Lys
 1951 515 520 525
 1953 Ile Pro Tyr His Glu Leu Phe Cys Ala Leu Leu Lys Asn Pro Asp Ile
 1954 530 535 540
 1956 Ile Ser Ser Ser Val Lys Gln Ser Leu Leu Asp Gly Phe Phe Arg
 1957 545 550 555 560
 1959 Trp Ser Gln His Cys Ser Asn Phe Asn Lys Glu Ser Met Leu Ser Leu
 1960 565 570 575
 1962 Arg Glu Phe Ile Met Lys Ala Leu Ala Ser Thr Ser Arg Cys Leu Arg
 1963 580 585 590
 1965 Val Val Ala Ala Lys Val Leu Pro Ile Phe Ile Lys Gly Pro Asn Asn
 1966 595 600 605
 1968 Leu Asp Ile Val Glu Phe His Lys Glu Ser Lys Ala Leu Ile Phe Asn
 1969 610 615 620
 1971 Thr Leu Lys Ile Leu Ala Val Glu Asn Thr Ala Ile Leu Glu Thr Val
 1972 625 630 635 640
 1974 Ile Leu Ser Trp Ile Ser Leu Ser Arg Val Val Glu Glu Glu Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

1975	645	650	655
1977 His Phe Val Leu Leu Glu Val Ile Ser Ser Val Ile Asn Ser Gly Ile			
1978	660	665	670
1980 Phe Tyr Gln Gly Ile Gly Leu Ser Ala Leu Gln Gln Ile Ala Ser Thr			
1981	675	680	685
1983 Arg His Ile Ser Val Trp Gln Leu Leu Ser Pro Tyr Trp Pro Thr Val			
1984	690	695	700
1986 Ser Val Ala Ile Val Gln Gly Met Gly Lys Lys Pro Asn Ile Ala Ser			
1987	705	710	715
1989 Leu Phe Ala Gln Leu Met Asn Ile Ser Glu Gly Asp Phe Leu Ile Arg			
1990	725	730	735
1992 Thr Gln Ala Tyr Thr Leu Pro Phe Leu Val Leu Thr Lys Asn Lys Ala			
1993	740	745	750
1995 Leu Ile Val Arg Ile Ala Glu Leu Ser Gln Ser Asp Val Ala Thr Leu			
1996	755	760	765
1998 Cys Leu Thr Asn Met His Lys Ile Leu Ala Ser Leu Leu Thr Thr Asp			
1999	770	775	780
2001 His Pro Asn Leu Glu Glu Ser Val Met Leu Leu Leu Ser Leu Ala Thr			
2002	785	790	795
2004 Ser Asp Phe Glu Lys Val Asp Leu Thr Ser Leu Leu Arg Ser Asp Pro			
2005	805	810	815
2007 Ile Ser Ile Thr Val Glu Leu Leu Gln Leu Tyr Gln Asn Asp Val Pro			
2008	820	825	830
2010 His Glu Lys Ile Glu Asn Ala Leu Arg Lys Val Ala Met Ile Val Ser			
2011	835	840	845
2013 Gln Val Val Asn Asp Glu Asp Leu Ser Asn Lys Glu Leu Leu Tyr Asp			
2014	850	855	860
2016 Phe Phe Asn Asn His Ile Leu Gly Ile Leu Ala Glu Phe Ser Asn Ile			
2017	865	870	875
2019 Leu Asn Asp Leu Lys Gly Lys Thr Ser Ile Asn Glu Lys Ile Lys Thr			
2020	885	890	895
2022 Ile Val Gly Ile Glu Lys Met Leu Ser Leu Cys Gly Gly Ala Val Lys			
2023	900	905	910
2025 Leu Gly Leu Pro Gln Ile Leu Ser Asn Leu Gln Ser Ala Phe Gln Asn			
2026	915	920	925
2028 Glu His Leu Arg Phe Tyr Ala Ile Lys Ala Trp Phe Ser Leu Ile Leu			
2029	930	935	940
2031 Ala Thr Lys Glu Pro Glu Tyr Ser Ser Ile Ala Gly Leu Ser Leu Val			
2032	945	950	955
2034 Ile Leu Pro Pro Leu Phe Pro Tyr Leu Glu Pro Gln Glu Ala Glu Leu			
2035	965	970	975
2037 Val Ile Gln Ile Phe Asp Phe Ile Ser Ser Asp Thr His Lys Cys Leu			
2038	980	985	990
2040 Gln Gly Leu Lys Trp Ala Ile Pro Thr Ser Leu Asp Ser Ala Cys Phe			
2041	995	1000	1005
2043 Ser Leu Lys Ala Lys Glu Ile Phe Cys Ser Leu Gln Asn Glu Asp Phe			
2044	1010	1015	1020
2046 Tyr Ser Glu Leu Gln Ser Ile Ile Lys Cys Leu Thr Asn Glu Asn Glu			
E--> 2047 025 1025 1030 1035 1040			

Same error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

2049 Pro Val Cys Tyr Leu Gly Leu Gln Lys Leu Glu Leu Phe Phe Gln Ala
 2050 1045 1050 1055
 2052 Lys Val Asp Glu Leu His Asp Thr Leu Asn Leu Asp Ile Ser Asn Glu
 2053 1060 1065 1070
 2055 Val Leu Asp Gln Leu Leu Arg Cys Leu Leu Asp Cys Cys Val Lys Tyr
 2056 1075 1080 1085
 2058 Ala Ser Thr Asn Met Gln Ile Ser Tyr Leu Ala Ala Lys Asn Leu Gly
 2059 1090 1095 1100
 2061 Glu Leu Gly Ala Ile Asp Pro Ser Arg Ala Lys Ala Gln His Ile Ile
E--> 2062 105 110 1115 1120
 2064 Lys Glu Thr Val Val Leu Asp Asn Phe Glu Asn Gly Glu Glu Ser Leu
 2065 1125 1130 1135
 2067 Lys Phe Ile Leu Asp Phe Met Gln Ser Gln Leu Ile Pro Ala Phe Leu
 2068 1140 1145 1150
 2070 Val Thr Thr Asp Thr Lys Ala Gln Gly Phe Leu Ala Tyr Ala Leu Gln
 2071 1155 1160 1165
 2073 Glu Phe Leu Lys Leu Gly Gly Phe Lys Ser Ala Val Ile Asn Lys Lys
 2074 1170 1175 1180
 2076 Lys Gly Leu Thr Val Val Thr Glu His Trp Met Ser Leu Pro Asp Leu
E--> 2077 185 1190 1195 1200
 2079 Ser Lys Arg Val Leu Ile Pro Phe Leu Thr Ser Lys Tyr His Leu Thr
 2080 1205 1210 1215
 2082 Pro Ile Pro Lys Ile Asp Ile Arg Tyr Pro Ile Tyr Lys Glu Asn Val
 2083 1220 1225 1230
 2085 Thr Ile His Thr Trp Met Gln Leu Phe Ser Leu Lys Leu Met Glu Tyr
 2086 1235 1240 1245
 2088 Ala His Ser Gln Asn Ala Glu Lys Ile Phe Gly Ile Cys Ser Lys Val
 2089 1250 1255 1260
 2091 Val Lys Asp Gln Glu Val Asn Ile Pro Cys Phe Leu Leu Pro Phe Leu
E--> 2092 265 1270 1275 1280
 2094 Val Leu Asn Val Ile Leu Thr Glu Ser Glu Leu Glu Val Asn Lys Val
 2095 1285 1290 1295
 2097 Ile Glu Glu Phe Gln Leu Val Ile Asn Gln Pro Gly Pro Asp Gly Leu
 2098 1300 1305 1310
 2100 Asn Ser Val Gly Gln Gln Arg Tyr Thr Ser Phe Val Asp Val Phe Phe
 2101 1315 1320 1325
 2103 Lys Ile Val Asp Tyr Leu Asn Lys Trp Leu Arg Met Arg Lys Lys Arg
 2104 1330 1335 1340
 2106 Asn Trp Asp Arg Arg Ser Ala Ile Ala Arg Lys Glu Asn Arg Tyr Met
E--> 2107 345 1350 1355 1360
 2109 Ser Val Glu Asp Ala Thr Ser Arg Glu Ser Ser Ile Ser Lys Val Glu
 2110 1365 1370 1375
 2112 Ser Phe Leu Ser Arg Phe Pro Ser Lys Thr Leu Gly Ile Val Ser Leu
 2113 1380 1385 1390
 2115 Asn Cys Gly Phe His Ala Arg Ala Leu Phe Tyr Trp Glu Gln His Ile
 2116 1395 1400 1405
 2118 Arg Asn Ala Thr Ala Pro Tyr Ala Ala Leu Glu Ser Asp Tyr Arg Val
 2119 1410 1415 1420
 2121 Leu Gln Glu Ile Tyr Ala Gly Ile Asp Asp Pro Asp Glu Ile Glu Ala

Mase

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

E--> 2122 425 1430 1435 1440
 2124 Val Ser Leu Asn Phe His Asp Tyr Ser Phe Asp Gln Gln Leu Leu Leu
 2125 1445 1450 1455
 2127 His Glu Asn Ser Gly Thr Trp Asp Ser Ala Leu Ser Cys Tyr Glu Ile
 2128 1460 1465 1470
 2130 Ile Ile Gln Lys Asp Pro Glu Asn Lys Lys Ala Lys Ile Gly Leu Leu
 2131 1475 1480 1485
 2133 Asn Ser Met Leu Gln Ser Gly His Tyr Glu Ser Leu Val Leu Ser Leu
 2134 1490 1495 1500
 2136 Asp Ser Phe Ile Ile Asn Asp Asn His Glu Tyr Ser Lys Met Leu Asn
 E--> 2137 505 1510 1515 1520
 2139 Leu Gly Ile Glu Ala Ser Trp Arg Ser Leu Ser Ile Asp Ser Leu Lys
 2140 1525 1530 1535
 2142 Lys Cys Leu Ser Lys Ser Asn Leu Glu Ser Phe Glu Ala Lys Leu Gly
 2143 1540 1545 1550
 2145 Ser Ile Phe Tyr Gln Tyr Leu Arg Lys Asp Ser Phe Ala Glu Leu Thr
 2146 1555 1560 1565
 2148 Glu Arg Leu Gln Pro Leu Tyr Val Asp Ala Ala Thr Ala Ile Ala Asn
 2149 1570 1575 1580
 2151 Thr Gly Ala His Ser Ala Tyr Asp Cys Tyr Asp Ile Leu Ser Lys Leu
 E--> 2152 585 1590 1595 1600
 2154 His Ala Ile Asn Asp Phe Ser Arg Ile Ala Glu Thr Asp Gly Ile Val
 2155 1605 1610 1615
 2157 Ser Asp Asn Leu Asp Ile Val Leu Arg Arg Arg Leu Ser Gln Val Ala
 2158 1620 1625 1630
 2160 Pro Tyr Gly Lys Phe Lys His Gln Ile Leu Ser Thr His Leu Val Gly
 2161 1635 1640 1645
 2163 Tyr Glu Lys Phe Glu Asn Thr Lys Lys Thr Ala Glu Ile Tyr Leu Glu
 2164 1650 1655 1660
 2166 Ile Ala Arg Ile Ser Arg Lys Asn Gly Gln Phe Gln Arg Ala Phe Asn
 E--> 2167 665 1670 1675 1680
 2169 Ala Ile Leu Lys Ala Met Asp Leu Asp Lys Pro Leu Ala Thr Ile Glu
 2170 1685 1690 1695
 2172 His Ala Gln Trp Trp Trp His Gln Gly Gln His Arg Lys Ala Ile Ser
 2173 1700 1705 1710
 2175 Glu Leu Asn Phe Ser Leu Asn Asn Asn Met Phe Asp Leu Val Asp Glu
 2176 1715 1720 1725
 2178 His Glu Glu Arg Pro Lys Asn Arg Lys Glu Thr Leu Gly Asn Pro Leu
 2179 1730 1735 1740
 2181 Lys Gly Lys Val Phe Leu Lys Leu Thr Lys Trp Leu Gly Lys Ala Gly
 E--> 2182 745 1750 1755 1760
 2184 Gln Leu Gly Leu Lys Asp Leu Glu Thr Tyr Tyr His Lys Ala Val Glu
 2185 1765 1770 1775
 2187 Ile Tyr Ser Glu Cys Glu Asn Thr His Tyr Tyr Leu Gly His His Arg
 2188 1780 1785 1790
 2190 Val Leu Met Tyr Glu Glu Glu Gln Lys Leu Pro Val Asn Glu Gln Ser
 2191 1795 1800 1805
 2193 Glu Arg Phe Leu Ser Gly Glu Leu Val Thr Arg Ile Ile Asn Glu Phe
 2194 1810 1815 1820

Jane

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

2196 Gly Arg Ser Leu Tyr Tyr Gly Thr Asn His Ile Tyr Glu Ser Met Pro
 E--> 2197 825 1830 1835 1840
 2199 Lys Leu Leu Thr Leu Trp Leu Asp Phe Gly Ala Glu Glu Leu Arg Leu
 2200 1845 1850 1855
 2202 Ser Lys Asp Asp Gly Glu Lys Tyr Phe Arg Glu His Ile Ile Ser Ser
 2203 1860 1865 1870
 2205 Arg Lys Lys Ser Leu Glu Leu Met Asn Ser Asn Val Cys Arg Leu Ser
 2206 1875 1880 1885
 2208 Met Lys Ile Pro Gln Tyr Phe Leu Val Ala Leu Ser Gln Met Ile
 2209 1890 1895 1900
 2211 Ser Arg Val Cys His Pro Asn Asn Lys Val Tyr Lys Ile Leu Glu His
 E--> 2212 905 1910 1915 1920
 2214 Ile Ile Ala Asn Val Val Ala Ser Tyr Pro Gly Glu Thr Leu Trp Gln
 2215 1925 1930 1935
 2217 Leu Met Ala Thr Ile Lys Ser Thr Ser Gln Lys Arg Ser Leu Arg Gly
 2218 1940 1945 1950
 2220 Lys Ser Ile Leu Asn Val Leu His Ser Arg Lys Leu Ser Met Ser Ser
 2221 1955 1960 1965
 2223 Lys Val Asp Ile Lys Ala Leu Ser Gln Ser Ala Ile Leu Ile Thr Glu
 2224 1970 1975 1980
 2226 Lys Leu Ile Asn Leu Cys Asn Thr Arg Ile Asn Ser Lys Ser Val Lys
 E--> 2227 985 1990 1995 2000
 2229 Met Ser Leu Lys Asp His Phe Arg Leu Ser Phe Asp Asp Pro Val Asp
 2230 2005 2010 2015
 2232 Leu Val Ile Pro Ala Lys Ser Phe Leu Asp Ile Thr Leu Pro Ala Lys
 2233 2020 2025 2030
 2235 Asp Ala Asn Arg Ala Ser His Tyr Pro Phe Pro Lys Thr Gln Pro Thr
 2236 2035 2040 2045
 2238 Leu Leu Lys Phe Glu Asp Glu Val Asp Ile Met Asn Ser Leu Gln Lys
 2239 2050 2055 2060
 2241 Pro Arg Lys Val Tyr Val Arg Gly Thr Asp Gly Asn Leu Tyr Pro Phe
 E--> 2242 065 2070 2075 2080
 2244 Leu Cys Lys Pro Lys Asp Asp Leu Arg Lys Asp Ala Arg Leu Met Glu
 2245 2085 2090 2095
 2247 Phe Asn Asn Leu Ile Cys Lys Ile Leu Arg Lys Asp Gln Glu Ala Asn
 2248 2100 2105 2110
 2250 Arg Arg Asn Leu Cys Ile Arg Thr Tyr Val Val Ile Pro Leu Asn Glu
 2251 2115 2120 2125
 2253 Glu Cys Gly Phe Ile Glu Trp Val Asn His Thr Arg Pro Phe Arg Glu
 2254 2130 2135 2140
 2256 Ile Leu Leu Lys Ser Tyr Arg Gln Lys Asn Ile Pro Ile Ser Tyr Gln
 E--> 2257 145 2150 2155 2160
 2259 Glu Ile Lys Val Asp Leu Asp Phe Ala Leu Arg Ser Pro Asn Pro Gly
 2260 2165 2170 2175
 2262 Asp Ile Phe Glu Lys Lys Ile Leu Pro Lys Phe Pro Pro Val Phe Tyr
 2263 2180 2185 2190
 2265 Glu Trp Phe Val Glu Ser Phe Pro Glu Pro Asn Asn Trp Val Thr Ser
 2266 2195 2200 2205
 2268 Arg Gln Asn Tyr Cys Arg Thr Leu Ala Val Met Ser Ile Val Gly Tyr

Same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004
TIME: 12:50:13

Input Set : A:\34132seq.txt
Output Set: N:\CRF4\07232004\J685258A.raw

2269	2210	2215	2220												
2271 Val	Leu	Gly	Leu	Gly	Asp	Arg	His	Gly	Glu	Asn	Ile	Leu	Phe	Asp	Glu
E--> 2272	225	2230	2235	2240											
2274 Phe	Thr	Gly	Glu	Ala	Ile	His	Val	Asp	Phe	Asn	Cys	Leu	Phe	Asp	Lys
2275	2245	2250	2255												
2277 Gly	Leu	Thr	Phe	Glu	Lys	Pro	Glu	Lys	Val	Pro	Phe	Arg	Leu	Thr	His
2278	2260	2265	2270												
2280 Asn	Met	Val	Asp	Ala	Met	Gly	Pro	Thr	Gly	Tyr	Glu	Gly	Phe	Arg	
2281	2275	2280	2285												
2283 Lys	Ala	Ser	Glu	Ile	Thr	Met	Arg	Leu	Leu	Arg	Ser	Asn	Gln	Asp	Thr
2284	2290	2295	2300												
2286 Leu	Met	Ser	Val	Leu	Glu	Ser	Phe	Leu	His	Asp	Pro	Leu	Val	Glu	Trp
E--> 2287	305	2310	2315	2320											
2289 Asn	Arg	Lys	Lys	Ser	Ser	Ser	Lys	Tyr	Pro	Asn	Asn	Glu	Ala	Asn	Glu
2290	2325	2330	2335												
2292 Val	Leu	Asp	Ile	Ile	Arg	Lys	Lys	Phe	Gln	Gly	Phe	Met	Pro	Gly	Glu
2293	2340	2345	2350												
2295 Thr	Ile	Pro	Leu	Ser	Ile	Glu	Gly	Gln	Ile	Gln	Glu	Leu	Ile	Lys	Ser
2296	2355	2360	2365												
2298 Ala	Val	Asn	Pro	Lys	Asn	Leu	Val	Glu	Met	Tyr	Ile	Gly	Trp	Ala	Ala
2299	2370	2375	2380												
2301 Tyr	Phe														
E--> 2302	385														

same

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/685,258A

DATE: 07/23/2004

TIME: 12:50:14

Input Set : A:\34132seq.txt

Output Set: N:\CRF4\07232004\J685258A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:903 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:2047 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4